



Answer all the questions below then check your answer when you are done.

1. Decide if the substances below are elements or compounds and place them in the correct place in the table.


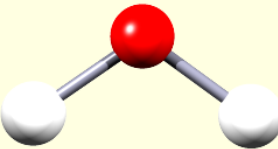

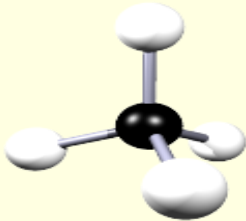
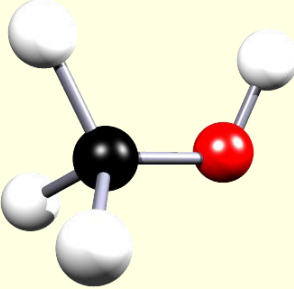
Oxygen carbon dioxide iron copper chloride sodium oxide potassium gold silver
 Magnesium nitride iron sulfide magnesium oxide mercury nickel phosphorus

element	compound

2. The table below gives the names and formula for a number of substances. Complete the table.

Name of compound	Chemical formula	Names of the elements present
Sodium chloride	NaCl	
Magnesium oxide	MgO	
Iron sulfide	FeS	
Calcium carbonate	CaCO ₃	
Magnesium nitrate	MgNO ₃	

3. The table below shows some molecules. Some of these molecules are compounds and some are elements. Complete the table by filling in all the boxes.

Substance name	Element or compound	Particle picture	Chemical formula	Number of atoms present in the molecule
chlorine			Cl_2	
water				
Carbon dioxide				3
methane			CH_4	
methanol			CH_3OH	

4. Complete the following word equations.

a. sodium + chlorine \longrightarrow

b. iron + oxygen \longrightarrow

c. magnesium + bromine \longrightarrow

d. copper + chlorine \longrightarrow

e. + \longrightarrow lithium sulfide

f. + \longrightarrow aluminium iodide

Answers

1. Decide if the substances below are elements or compounds and place them in the correct place in the table.

Oxygen carbon dioxide iron copper chloride sodium oxide potassium gold silver

Magnesium nitride iron sulfide magnesium oxide mercury nickel phosphorus


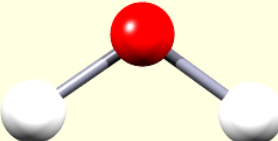
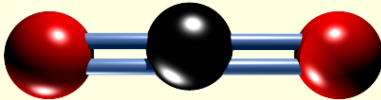
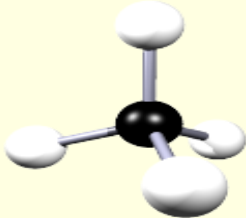
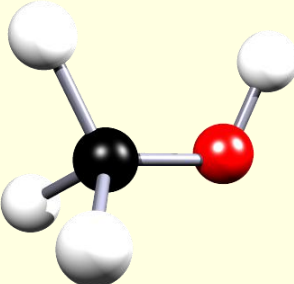
element	compound
oxygen	Carbon dioxide
iron	Copper chloride
potassium	Sodium oxide
gold	Magnesium nitride
silver	Iron sulfide
mercury	Magnesium oxide
nickel	
phosphorus	

2. The table below gives the names and formula for a number of substances.

Complete the table.

Name of compound	Chemical formula	Names of the elements present
Sodium chloride	NaCl	Sodium chlorine
Magnesium oxide	MgO	Magnesium oxygen
Iron sulfide	FeS	Iron sulfur
Calcium carbonate	CaCO ₃	Calcium carbon oxygen
Magnesium nitrate	MgNO ₃	Magnesium nitrogen oxygen

3. The table below shows some molecules. Some of these molecules are compounds and some are elements. Complete the table by filling in all the boxes.

Substance name	Element or compound	Particle picture	Chemical formula	Number of atoms present in the molecule
chlorine	element		Cl_2	2
water	compound		H_2O	3
Carbon dioxide	compound		CO_2	3
methane	compound		CH_4	5
methanol	compound		CH_3OH	6

4. Complete the following word equations.

a. sodium + chlorine \longrightarrow sodium chloride

b. iron + oxygen \longrightarrow iron oxide

c. magnesium + bromine \longrightarrow magnesium bromide

d. copper + chlorine \longrightarrow copper chloride

e. lithium + sulfur \longrightarrow lithium sulfide

f. aluminium + iodine \longrightarrow aluminium iodide